APPENDIX N

```
Proc continuous-process(x)
// x is a data entry/value
If the corresponding variable is not selected by AMB, return;
If x is a missing value
       Mark this record invalid;
       Substitute it with mean value;
       //mean value of this variable in training set collected during AMB
Else
       If x > max
                      // maximum value of this variable in training set collected during AMB
               x = max;
               Mark this record invalid;
       End If
       If x < min
                      // minimum value of this variable in training set collected during AMB
               x = min;
               Mark this record invalid;
       End If
End If
If the corresponding variable is exponentially distributed
       Retrieve the mean and min value for log-scaling;
       // It is mean and minimum value of samples of this predictor in training set when conduct
       // exponential distribution test, might be different from those in whole training set
        x = 1 - e^{mean-min};
Retrieve the mean and norm value for normalization;
x = \frac{x - mean}{};
Put x in the design matrix according to its column index and row number.
      categorical-process(x)
       // x is a data entry/value, m is the number of records
       If the corresponding dummy is not retained in the model then Return;
               Get the column index of this categorical variable in the design matrix [i:j];
       //1<=i<i;
               Fill 0s in entry(ies)[m, i:j];
       If this dummy appears in the training set
               Get the column index of this dummy, k (i \le k \le j, or k \le 0);
               If k > 0
                      Fill a 1 in entry (m,k);
               End If
               Else
                      Mark this record invalid:
```

```
End If

For k = i: j

x = \text{value of entry } (m, k); //1 or 0

Get the mean and norm value for normalization;

x = \frac{x - mean}{norm};

entry (m, k) = x;

End For
```